

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

LISTING OF CLAIMS:

1. (Currently Amended) A method of forming a liner, including the steps of mixing a water-based dispersion of polyurethane with a cementitious material to form a wet mixture and applying the wet mixture to a surface, to form the liner, ~~characterised in that,~~ wherein the % mass of the water-based dispersion of polyurethane in the wet mixture ranges between 40 and 80%.
2. (Currently Amended) The method according to claim 1, ~~characterised in that,~~ wherein the % mass of the water-based dispersion of polyurethane in the wet mixture ranges between 60 and 70%.
3. (Currently Amended) The method according to claim 1 ~~or claim 2,~~ ~~characterised in that~~ wherein the water-based dispersion of polyurethane includes additives which improve the evaporation of the liquid of the wet mixture.
4. (Currently Amended) The method according to claim 3, ~~characterised in that,~~ wherein the additives include a low boiling point alcohol.
5. (Currently Amended) The method according to claim 4, ~~characterised in that,~~ wherein the low boiling point alcohol is isopropanol or ethanol.

6. (Currently Amended) The method according to claim 5, characterised ~~in that, wherein~~ the % mass of the additives in the wet mixture ranges between 0 to 5%.

7. (Currently Amended) The method according to ~~any one of claims 1 to 6, characterised in that~~ claim 1, wherein the cementitious material includes anhydrous calcium sulphate.

8. (Currently Amended) The method according to claim 7, characterised ~~in that, wherein~~ the % mass of the anhydrous calcium sulphate in the wet mixture ranges between 5 and 35%.

9. (Currently Amended) The method according to claim 8, characterised ~~in that, wherein~~ the % mass of the anhydrous calcium sulphate in the wet mixture ranges between 10 and 20%.

10. (Currently Amended) The method according to claim 8, characterised ~~in that, wherein~~ the % mass of the anhydrous calcium sulphate in the wet mixture ranges between 10 and 17%.

11. (Currently Amended) The method according to ~~any one of claims 1 to 10, characterised in that~~ claim 1, wherein an epoxy hardener and an epoxy resin from part of the wet mixture.

12. (Currently Amended) The method according to claim 11, ~~characterised in that,~~ wherein the epoxy hardener is included in the water-based dispersion of polyurethane.

13. (Currently Amended) The method according to claim 11, ~~characterised in that,~~ wherein the % mass of the epoxy hardener in the wet mixture is in the range of 1 to 10% and the % mass of the epoxy resin in the wet mixture is in the range of 1 to 10%.

14. (Currently Amended) The method according to claim 13 ~~characterised in that,~~ wherein the % mass of the epoxy hardener in the wet mixture is approximately 5% and the % mass of the epoxy resin in the wet mixture is approximately 5%.

15. (Currently Amended) The method according to ~~any one of claims 11 to 14 characterised in that~~ claim 11, wherein the epoxy resin is mixed with a liquid carrier prior to being mixed with the epoxy hardener.

16. (Currently Amended) The method according to ~~any one of claims 13 to 15, characterised in that~~ claim 13, wherein the liquid carrier is an amorphous precipitated silica.

17. (Currently Amended) The method according to claim 13 ~~or claim 14~~, ~~characterised in that~~ wherein the mixture of the epoxy resin and the liquid carrier is in powder form and is combined with the cementitious material.

18. (Currently Amended) The method according to ~~any one of claims 1 to 17~~, ~~characterised in that~~ claim 1, wherein the wet mixture is applied to a surface by spraying, casting, rolling or brushing.

19. (Currently Amended) The method according to claim 18, ~~characterised in that~~, wherein the wet mixture is sprayed in a fine mist onto the surface by spray gun.

20. (Currently Amended) The method according to claim 18, wherein ~~or claim 19~~, ~~characterised in that~~ the surface is a wall in a mine or the liner for a swimming ~~pool~~ pool or any other water proofing application and the wet mixture applied to the surface has a thickness between 0.1 to 5 mm.

21. (Currently Amended) The method according to claim 18, wherein ~~characterised in that~~ the wet mixture applied to the surface has a thickness between 0.1 to 1.5 mm.

22. (Currently Amended) A kit for the production of a wet mixture for forming a liner, the kit including:

- a first component including a water-based dispersion of polyurethane;

and

- a second component including a cementitious material characterised in that the % mass of the water-based dispersion of polyurethane in the wet mixture ranges between 40 and 80%.

23. (Currently Amended) The kit according to claim 22, wherein ~~characterised in that~~ wherein the % mass of the water-based dispersion of polyurethane in the wet mixture ranges between 60 and 70%.

24. (Currently Amended) The kit according to claim 22 ~~or claim 23,~~ ~~characterised in that,~~ wherein the first component includes additives which improve the evaporation of liquid of the wet mixture.

25. (Currently Amended) The kit according to claim 24, ~~characterised in that,~~ wherein the additives include a low boiling point alcohol.

26. (Currently Amended) The kit according to claim 25, ~~characterised in that~~ wherein the low boiling point alcohol is isopropanol or ethanol.

27. (Currently Amended) The kit according to claim 26, ~~characterised in that~~ wherein the % mass of the additives in the mixture ranges between 0 to 5%.

28. (Currently Amended) The kit according to ~~any one of claims 22 to 27,~~
~~characterised in that~~ claim 22, wherein the second component includes anhydrous
calcium sulphate.

29. (Currently Amended) The kit according to claim 28, ~~characterised in~~
~~that~~ wherein the % mass of the anhydrous calcium sulphate ranges between 5 and
35%.

30. (Currently Amended) The kit according to claim 29, ~~characterised in~~
~~that~~ wherein the % mass of the anhydrous calcium sulphate in the wet mixture
ranges between 10 and 20%.

31. (Currently Amended) The kit according to claim 30, ~~characterised in~~
~~that~~ wherein the % mass of the anhydrous calcium sulphate in the wet mixture
ranges between 15 and 17%.

32. (Currently Amended) The kit according to ~~any one of claims 22 to 31,~~
~~characterised in that~~ Claim 22, wherein an epoxy hardener and an epoxy resin form
part of the wet mixture.

33. (Currently Amended) The kit according to claim 32, ~~characterised in~~
~~that~~ wherein the epoxy hardener is included in the first component.

34. (Currently Amended) The kit according to claim 33, ~~characterised in that~~ wherein the % mass of the epoxy hardener in the wet mixture is in the range of 1 to 10% and the % mass of the epoxy resin in the wet mixture is in the range of 1 to 10%.

35. (Currently Amended) The kit according to claim 34, ~~characterised in that~~ wherein the % mass of the epoxy hardener in the wet mixture is approximately 5% and the % mass of the epoxy resin in the wet mixture is approximately 5%.

36. (Currently Amended) The kit according to ~~any one of claims 32 to 35,~~ ~~characterised in that~~ claim 32, wherein the epoxy resin is dispersed with a quantity of liquid carrier to adsorb the liquid onto the liquid carrier.

37. (Currently Amended) The kit according to claim 36, ~~characterised in that~~ wherein the liquid carrier is an inert fine grade of silica.

38. (Currently Amended) The kit according to claim 36 ~~or claim 37,~~ ~~characterised in that~~ wherein the epoxy resin and liquid carrier is in powder form and is combined with the cementitious material forming the second component.

39. (Currently Amended) A wet mixture for forming a liner, the wet mixture including a water-based dispersion of polyurethane and a cementitious material, ~~characterised in that~~ wherein the % mass of the water-based dispersion of polyurethane in the wet mixture ranges between 40 and 80%.

40. (Currently Amended) The wet mixture according to claim 39, ~~characterised in that~~ wherein the % mass of the water-based dispersion of polyurethane in the wet mixture ranges between 60 and 70%.

41. (Currently Amended) The wet mixture according to claim 39 ~~or claim 40, characterised in that~~ wherein the water-based dispersion of polyurethane includes additives which improve the evaporation of liquid of the wet mixture.

42. (Currently Amended) The wet mixture according to claim 41, ~~characterised in that~~ wherein the additives include a low boiling point alcohol.

43. (Currently Amended) The wet mixture according to claim 42, ~~characterised in that~~ wherein the low boiling point alcohol is isopropanol or ethanol.

44. (Currently Amended) The wet mixture according to claim 43, ~~characterised in that~~ wherein the % mass of the additives in the mixture ranges between 0 to 5%.

45. (Currently Amended) The wet mixture according to ~~any one of claims 39 to 44, characterised in that~~ claim 39, wherein the cementitious material includes anhydrous calcium sulphate.

46. (Currently Amended) The wet mixture according to claim 45, ~~characterised in that~~ wherein the % mass of the anhydrous calcium sulphate in the wet mixture ranges between 5 and 35%.

47. (Currently Amended) The wet mixture according to claim 46, ~~characterised in that~~ wherein the % mass of the anhydrous calcium sulphate in the wet mixture ranges between 10 and 20%.

48. (Currently Amended) The wet mixture according to claim 47, ~~characterised in that~~ wherein the % mass of the anhydrous calcium sulphate in the wet mixture ranges between 10 and 20%.

49. (Currently Amended) The wet mixture according to ~~any one of claims 39 to 48,~~ ~~characterised in that~~ claim 39, wherein an epoxy hardener and an epoxy resin form part of the wet mixture.

50. (Currently Amended) The wet mixture according to claim 49, ~~characterised in that~~ wherein the epoxy hardener is included in the water-based dispersion of polyurethane.

51. (Currently Amended) The wet mixture according to claim 50, ~~characterised in that~~ wherein the % mass of the epoxy hardener in the wet mixture is in the range of 1 to 10% and the % mass of the epoxy resin in the wet mixture is in the range of 1 to 10%.

52. (Currently Amended) The wet mixture according to claim 51, ~~characterised in that~~ wherein the % mass of the epoxy hardener in the wet mixture is approximately 5% and the % mass of the epoxy resin in the wet mixture is approximately 5%.

53. (Currently Amended) The wet mixture according to ~~any one of claims 49 to 52 characterised in that~~ claim 49, wherein the epoxy resin is mixed with a liquid carrier to form a powder prior to being mixed with the epoxy hardener.

54. (Currently Amended) The wet mixture according to claim 53, ~~characterised in that~~ wherein the liquid carrier is an amorphous precipitated silica.

55. (Currently Amended) The wet mixture according to claim 53 ~~or claim 54, characterised in that~~, wherein the mixture of epoxy resin and the liquid carrier is in powder form and is combined with the cementitious material.

56. (Currently Amended) A liner, including a water-based dispersion of polyurethane and a cementitious material, ~~characterised in that~~ the % mass of the water-based dispersion of polyurethane in the liner ranges between 40 and 80% in a wet mixture of the constituents.

57. (Currently Amended) The liner according to claim 56, ~~characterised in that~~ wherein the water-based dispersion of polyurethane includes additives which improve the setting of the liner.

58. (Currently Amended) The linear according to claim 57, ~~characterised in that~~ wherein the additives include a low boiling point alcohol.

59. (Currently Amended) The liner according to claim 58, ~~characterised in that~~ wherein the low boiling point alcohol is isopropanol or ethanol.

60. (Currently Amended) The liner according to any one of ~~claims 56 to 59, characterised in that~~ claim 56, wherein the cementitious material includes anhydrous calcium sulphate.

61. (Currently Amended) The liner according to ~~any one of claims 56 to 60, characterised in that~~ claim 56, wherein an epoxy hardener and an epoxy resin form part of the liner.

62. (Currently Amended) The liner according to claim 61, ~~characterised in that~~ wherein the epoxy hardener is included in the water-based dispersion of polyurethane.

63. (Currently Amended) The liner according to claim 61 ~~or claim 62~~, characterised in that wherein the epoxy resin is mixed with a liquid carrier to form a powder prior to being mixed with the epoxy hardener.

64. (Currently Amended) The liner according to claim 63, characterised in that wherein the liquid carrier is an amorphous precipitated silica.

65. (Currently Amended) The liner according to claim 63 ~~or claim 64~~, characterised in that wherein the mixture of epoxy resin and the liquid carrier is in powder form and is combined with the cementitious material.